

**CRYSTAL STRUCTURE OF ACYL CARRIER PROTEIN SYNTHASE  
AND ACYL CARRIER PROTEIN SYNTHASE COMPLEX**

**Abstract of the Disclosure**

This invention is directed to Acyl Carrier Protein Synthase (ACPS) crystals  
5 and crystals of Acyl Carrier Protein Synthase - Coenzyme A (ACPS-CoA) complex,  
and to the use of these crystals to determine the three dimensional structure of  
ACPS. This invention is further directed to the use of rational drug design methods  
to identify agents that may interact with active sites of ACPS and ACPS-CoA  
complex, and to the testing of these agents to identify agents that may inhibit ACPS  
10 and/or ACPS-CoA complex activity.